

ABSTRACT

A multi-bus computer system is adapted for dynamic load balancing. The computer system includes a plurality of expansion slots, a first expansion bus, a second expansion bus, and a bus switching mechanism to assign at least one of the plurality of expansion slots between the first expansion bus and the second expansion bus. Selection of the particular expansion bus may be controlled by a bus selection signal based on a type of device in the particular expansion slot, the speed of the device in the expansion slot, the bitsize of the device in the expansion slot, or availability of each expansion slot.